Title (en)

HYBRID ELECTRIC DRIVE UNIT, HYBRID DRIVE SYSTEM AND CONTROL METHOD THEREOF

Title (de)

HYBRIDE ELEKTRISCHE ANTRIEBSEINHEIT, HYBRIDANTRIEBSSYSTEM UND STEUERVERFAHREN DAFÜR

Title (fr)

UNITÉ D'ENTRAÎNEMENT ÉLECTRIQUE HYBRIDE, SYSTÈME D'ENTRAÎNEMENT HYBRIDE ET PROCÉDÉ DE COMMANDE DE CEUX-CI

Publication

EP 2508378 B1 20180110 (EN)

Application

EP 10834150 A 20101130

Priority

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- CN 2010001919 W 20101130

Abstract (en)

[origin: EP2508378A1] A series/parallel hybrid electric drive unit for vehicle comprises an engine (1), a main traction motor (2), an integrated starter-generator (3), a differential (4), a first shaft (main haft) (5), a first stage decelerating device (9), a second stage decelerating device (10), a first clutch (6), a second clutch (7) and a synchronizer (8). The synchronizer (8) is slidably arranged on the first shaft (5) which is connected to the first stage decelerating device (9) or the second stage decelerating device (10) by the synchronizer (8), respectively. The hybrid electric drive unit of the invention has a compactly-arranged internal structure and an efficient and appropriate internal connection, and a switch between connection and disconnection of respective hybrid power sources and wheels and a shifting among operating modes and gear positions of the hybrid drive system can be realized.

IPC 8 full level

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CPC (source: EP US)

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Citation (examination)

None

Cited by

EP2902230A1; US10670123B2; US9889734B2; US9849771B2; US9874266B2; US10363806B2; US9889733B2; US9919699B2; US9944165B2; US10166853B2

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